

COMBINED DECLARATION AND PRINCIPAL POWER OF ATTORNEY FOR PATENT APPLICATION

Copy from Prior Application

As a below-named inventor, I (we) hereby declare that:

My (our) residence, post office address and citizenship, is (are) as stated below next to my (our) name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Gated Fabrication of Nanostructure Field Emission Cathode Material Within a Device

the specification of which

_____ Is attached hereto.

 X was filed on **May 24, 2002** as Application No. **10/**_____,
and was amended on _____
(If Applicable)

I hereby state that I (we) have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I (we) acknowledge the duty to disclose all information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.					
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:					
I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:					
Application Number(s)	Filing Date (MM/DD/YYYY)				
60/293,780	05/25/2001	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto			

Gray Cary\AU4085083.1
2500940-991361

<p>I hereby claim the benefit under 35 U.S.C. 120 of any United States Application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.</p>		
U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (If applicable)
<p>Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.</p>		


I (we) hereby appoint the following attorneys and/or patent agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

George L. Craig	Registration No. 29,293
Vincent A. Branton	Registration No. 39,120
Joseph A. Marasco	Registration No. 32,798
James M. Spicer	Registration No. 26,096
Shelly L. Stafford	Registration No. 38,623
Kirk A. Wilson	Registration No. 45,939

All of: UT-Battelle, LLC
P. O. Box 2009
Oak Ridge, Tennessee 37831-8243

Please direct all correspondence and telephone calls to the individuals identified in the Associate Power of Attorney.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of First Inventor:	Michael A. Guillom
Signature:	
Date:	6/26/02
Citizenship:	United States of America
Residence Address:	1702 Washington Ave., #1 Knoxville, TN 37917

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Micha I A. Guillorn, et al.**

Group Art Unit:

Serial No.:

Examiner: **Unknown**Filed: **May 24, 2002**Atty. Dkt. No. **UBAT1360-1**For: **Gated Fabrication of
Nanostructure Field
Emission Cathode Material
Within a Device****Copy from Prior Application****ASSOCIATE POWER OF ATTORNEY
FOR PATENT APPLICATION
Pursuant to 37 CFR 1.34**Commissioner for Patents
Washington, D.C. 20231

Sir:

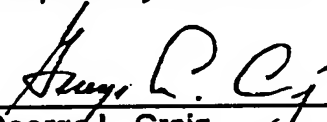
Pursuant to 37 CFR 1.34, I hereby appoint the registered practitioners assigned to **Customer No. 25094** including: John L. Adair, Reg. No. 48,828; Mark L. Berrier, Reg. No. 35,066; John J. Bruckner, Reg. No. 35,816; George R. Meyer, Reg. No. 35,284; Steven R. Sprinkle, Reg. No. 40,825, each an attorney or agent of Gray Cary Ware and Freidenrich, L.L.P. to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. (Assignee's agents are authorized to make corrections to this document).

Please direct all telephone calls to John Bruckner at (512) 457-7233. Please send all correspondence to:

**John J. Bruckner
Gray Cary Ware & Freidenrich, L.L.P.
1221 South MoPac Expressway, Suite 400
Austin, TX 78746-6875**

Date: 07-02-02

Respectfully submitted,



George L. Craig
Registration No. 29293
UT-Battelle, L.L.C.
P.O. Box 2009
Oak Ridge, TN 37831-8243

08-06-2002

Attorney Docket No.: UBAT136041

SHEET Copy from Prior Application



102179901

To the Honorable Commissioner for
thereof.

Please record the attached original documents or copy

1. Name of Conveying party(ies):

Michael A. Guillorn
Michael L. Simpson
Vladimir I. Merkulov
Anatoli V. Melechko
Douglas H. Lowndes



2. Name and address of receiving Party(ies):

Name: **UT-Battelle, L.L.C.**
Oak Ridge National Laboratory
Bethel Valley Road
P.O. Box 2008
Oak Ridge, TN 37831-6255

Additional name(s) of conveying party(ies)

Attached? ☐ Yes ☒ No

17.31.02

Additional name(s) & address(es) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ **Assignment**☐ Security Agreement☐ Other:☐ : Merger☐ : Change of name

Execution Date: 06/11/02 - 06/11/02 - 06/12/02 - 06/11/02 - 06/12/02 respectively

Application number(s) or patent number(s): **U.S. Serial No. 10/155,841 filed on May 24, 2002**

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes : ☒ No5. Name and address of party to whom
correspondence concerning document should be
mailed:

Name **Customer No. 25094**
Gray Cary Ware & Freidenrich LLP
1221 So. MoPac Expressway
Suite 400
Austin, Texas 78746

6. Total number of Applications and patents
involved: 17. Total fee (37 CFR 3.41).... **\$ 40.00**8. ☒ **Enclosed**

9. ☐ Authorized to charge the recordation fee or any
underpayment to deposit account No. 50-0456.
A duplicate copy of this page is attached.

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct
and any attached copy is a true copy of the original document.*


John J. Bruckner
Registration No. 35,816


Date

Total number of pages including cover sheet, attachments, and document: 5

08/06/2002 TDI A21 00000028 10155841


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40.00 00

Name of Second Inventor:

Michael L. Simpson

Signature:


06/27/2002

Date:

Citizenship:

United States of America

Residence Address:

7745 Nubbin Ridge Road
Knoxville, TN 37919

Name of Third Inventor:

Vladimir I. Merkulov

Signature:



Date:

06/26/02

Citizenship:

Russia

Residence Address:

790 N. Cedar Bluff Rd, #2118

1634 Laurel Ave # B12
Knoxville, TN 37916

Name of Fourth Inventor:

Anatoli V. Molechko

Signature:



Date:

06/26/02

Citizenship:

Russia

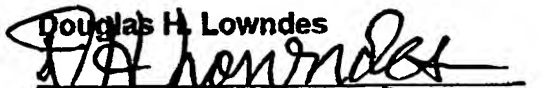
Residence Address:

1611 Laurell Avenue
Knoxville, TN 37916

Name of Fifth Inventor:

Douglas H. Lowndes

Signature:



Date:

June 27, 2002

Citizenship:

United States of America

Residence Address:

2720 Pine Hill Drive
Knoxville, TN 37932

ASSIGNMENT TO UT-BATTELLE

WHEREAS, I (we), the below-named inventors, whose residence and post office is (are) as stated below, have invented certain new and useful improvements in **Gated Fabrication of Nanostructure Field Emission Cathode Material Within a Device** for which an application for United States Letters Patent was executed on _____, the specification having been filed on **May 24, 2002**, and accorded U.S. Serial No. **10,155,841** and

WHEREAS, UT-Battelle, LLC, a limited liability company of the State of Tennessee, having an office at Oak Ridge National Laboratory, Bethel Valley Road, P.O. Box 2008, Oak Ridge, Tennessee 37831-6255, hereinafter called the ASSIGNEE, is desirous of acquiring the entire right, title and interest in the application and invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries. (Agents of ASSIGNEE are authorized to fill in blanks and make corrections in this document).

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I (we) hereby assign to ASSIGNEE the entire right, title and interest in the application and the invention, to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefor on the invention.

I (we) hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, I (we) hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said invention in the United States of America and in any and all foreign countries.

I (we) further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on me (us), our heirs, legal representatives, and assigns.

Name of First Inventor:

Signature:

Date:

Citizenship:

Residence Address:

Michael A. Guillorn

Michael A. Guillorn
6/11/02

United States of America

1702 Washington Ave., #1

Knoxville, TN 37917

State of Tennessee

County of

On this 11th day of June, 2002, before me, a Notary Public in and for the County and State aforesaid, appeared **Michael A. Guillorn**, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

SEAL

J. Wayne Jones
Notary Public
My Commission Expires
4/23/05

Name of Second Inventor:

Signature:

Date:

Citizenship:

Residence Address:

Michael L. Simpson

Michael L. Simpson
6/11/2002

United States of America

7745 Nubbin Ridge Road

Knoxville, TN 37919

State of Tennessee

County of

On this 11 day of June, 2002, before me, a Notary Public in and for the County and State aforesaid, appeared **Michael L. Simpson**, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

SEAL

J. Wayne Jones
Notary Public
My Commission Expires
4/23/05

Name of Third Inventor:

Vladimir I. Merkulov

Signature:

V. Merkulov

Date:

06/12/02

Citizenship:

Russia

Residence Address:

~~790 N. Cedar Bluff Rd. #2118~~ VM
1634 Laurel Ave #B-12

State of Tennessee
County of

Knoxville, TN 37916

On this 12th day of June, 2002, before me, a Notary Public in and for the County and State aforesaid, appeared **Vladimir I. Merkulov**, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

SEAL

J. Mark Jones
Notary Public
My Commission Expires 4/23/05

Name of Fourth Inventor:

Anatoli V. Melechko

Signature:

A. Melechko

Date:

06/11/2002

Citizenship:

Russia

Residence Address:

**1611 Laurell Avenue
Knoxville, TN 37916**

State of Tennessee
County of

On this 11th day of June, 2002, before me, a Notary Public in and for the County and State aforesaid, appeared **Anatoli V. Melechko**, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

SEAL

J. Mark Jones
Notary Public
My Commission Expires 4/23/05

Name of Fifth Inventor:

Douglas H. Lowndes

Signature:

Douglas H. Lowndes

Date:

June 12, 2002

Citizenship:

United States of America

Residence Address:

2720 Pine Hill Drive
Knoxville, TN 37932

On this 12th day of June, 2002, before me, a Notary Public in and for the County and State aforesaid, appeared Douglas H. Lowndes, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

SEAL

J. Bluff Jones
Notary Public
My Commission
Expires 4/23/05